EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	95	("6292830" "4972947" "5761493" "5826077" "5263159" "5873080" "6112210" "6112207" "5202981" "5592663" "5855013" "6189011" "6490581" "6223182" "6223182" "6229546" "5652880" "6326962" "5603032" "5487141" "5651108" "5794030" "6014138" "6059838" "6059838" "6330006" "5752027" "5781773" "5787442" "5826268" "5878410" "6028605" "6263492" "6374252" "6418448" "6647391" "6810399" "6915301" "6925646" "6996809" "7010542" "6042148" "5551916" "5519855" "5794216" "5905975" "5907837" "5924103" "5999664").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 20:27
L2	1	("6292830" "4972947" "5761493" "5826077" "5263159" "5873080" "6112210" "6112207" "5202981" "5592663" "5855013" "6189011" "6490581" "6223182" "6223182" "6229546" "5652880" "6326962" "5603032" "5487141" "5651108" "5794030" "6014138" "6059838" "6059838" "6330006" "5752027" "5781773" "5787442" "5826268" "5878410" "6028605" "6263492" "6374252" "6418448" "6647391" "6810399" "6915301" "6925646" "6996809" "7010542" "6042148" "5551916" "5519855" "5794216" "5905975" "5907837" "5924103" "5999664").pn. and (boolean adj query)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 20:28

EAST Search History

L3	17	("6292830" "4972947" "5761493" "5826077" "5263159" "5873080" "6112210" "6112207" "5202981" "5592663" "5855013" "6189011" "6490581" "6223182" "6223182" "6229546" "5652880" "6326962" "5603032" "5487141" "5651108" "5794030" "6014138" "6059838" "6059838" "6330006" "5752027" "5781773" "5787442" "5826268" "5878410" "6028605" "6263492" "6374252" "6418448" "6647391" "6810399" "6915301" "6925646" "6996809" "7010542" "6042148" "5551916" "5519855" "5794216" "5905975" "5907837" "5924103" "5999664").pn. and query and (object adj properties)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/14 20:28
L4	17	("5555365" \| "5603025" \| "5603034" \| "5619708" \| "5694608" \| "5740455" \| "5809266" \| "5809297" \| "5918053" \| "5956479" \| "5999944" \| "6002867" \| "6052693" \| "6067548" \| "6088698" \| "6263339" \| "6282547").PN. OR ("6915301").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/14 20:46
L5	40	("4796179" \| "5058162" \| "5077694" \| "5133068" \| "5151988" \| "5201047" \| "5235701" \| "5237681" \| "5261065" \| "5261080" \| "5265244" \| "5272628" \| "5276867" \| "5303379" \| "5317728" \| "5327529" \| "5392390").PN. OR ("5519855").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/14 20:51
L6	6349	707/3.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/14 20:54
L7	115	707/3.ccls. and (boolean adj query)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/14 20:51
L8	6	707/3.ccls. and (boolean adj query) and (object adj properties)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/14 20:51
L9	2031	707/4.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/14 20:54
L10	47	707/4.ccls. and (boolean adj query)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/14 20:54

EAST Search History

L11	2	707/4.ccls. and (boolean adj query) and (object adj properties)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/14 20:55
L12	0	707/5.ccls. and (boolean adj query) and (object adj properties)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/14 20:55

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1 Information retrieval session 8: efficiency: Efficient query evaluation using a two-level retrieval process
Andrei Z. Broder, David Carmel, Michael Herscovici, Aya Soffer, Jason Zien
November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(248.95 KB) Additional Information: full citation, abstract, references, index terms

We present an efficient query evaluation method based on a two level approach: at the first level, our method iterates in parallel over query term postings and identifies candidate documents using an *approximate evaluation* taking into account only partial information on term occurrences and no query independent factors; at the second level, promising candidates are *fully evaluated* and their exact scores are computed. The efficiency of the evaluation process can be improved signific ...

Keywords: **WAND**, document-at-a-time, efficient query evaluation

2 A novel method for the evaluation of Boolean query effectiveness across a wide operational range
Eero Sormunen
July 2000 **Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: pdf(796.61 KB) Additional Information: full citation, abstract, references, citings, index terms

Traditional methods for the system-oriented evaluation of Boolean IR system suffer from validity and reliability problems. Laboratory-based research neglects the searcher and studies suboptimal queries. Research on operational systems fails to make a distinction between searcher performance and system performance. This approach is neither capable of measuring performance at standard points of operation (e.g. across R0.0-R1.0).

A new laboratory-based evaluation method for Boolean IR sy ...

Keywords: evaluation (general), structured queries, test collections, testing methodology

3 Using local optimality criteria for efficient information retrieval with redundant information filters

Neil C. Rowe

April 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 2

Publisher: ACM Press

Full text available: pdf(2.21 MB) Additional Information: full citation, abstract, references, index terms

We consider information retrieval when the data—for instance, multimedia—is computationally expensive to fetch. Our approach uses "information filters" to considerably narrow the universe of possibilities before retrieval. We are especially interested in redundant information filters that save time over more general but more costly filters. Efficient retrieval requires that decisions must be made about the necessity, order, and concurrent processing of proposed filte ...

Keywords: Boolean algebra, conjunction, filters, natural language, optimization, queries

4 Interaction of query evaluation and buffer management for information retrieval

Björn T. Jónsson, Michael J. Franklin, Divesh Srivastava

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: pdf(1.81 MB) Additional Information: full citation, abstract, references, citings, index terms

The proliferation of the World Wide Web has brought information retrieval (IR) techniques to the forefront of search technology. To the average computer user, "searching" now means using IR-based systems for finding information on the WWW or in other document collections. IR query evaluation methods and workloads differ significantly from those found in database systems. In this paper, we focus on three such differences. First, due to the inherent fuzziness of the natural langua ...

5 XIRQL: a query language for information retrieval in XML documents

Norbert Fuhr, Kai Großjohann

September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(234.90 KB) Additional Information: full citation, abstract, references, citings, index terms

Based on the document-centric view of XML, we present the query language XIRQL. Current proposals for XML query languages lack most IR-related features, which are weighting and ranking, relevance-oriented search, datatypes with vague predicates, and semantic relativism. XIRQL integrates these features by using ideas from logic-based probabilistic IR models, in combination with concepts from the database area. For processing XIRQL queries, a path algebra is presented, that also serves as ...

6 Fast evaluation of structured queries for information retrieval

Eric W. Brown

July 1995 **Proceedings of the 18th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(1.15 MB) Additional Information: full citation, references, citings, index terms

7 A probabilistic relational algebra for the integration of information retrieval and database systems

Norbert Fuhr, Thomas Rölleke

January 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 1

Publisher: ACM Press

Full text available: pdf(2.10 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We present a probabilistic relational algebra (PRA) which is a generalization of standard relational algebra. In PRA, tuples are assigned probabilistic weights giving the probability that a tuple belongs to a relation. Based on intensional semantics, the tuple weights of the result of a PRA expression always conform to the underlying probabilistic model. We also show for which expressions extensional semantics yields the same results. Furthermore, we discuss complexity issues and indicate p ...

Keywords: hypertext retrieval, imprecise data, logical retrieval model, probabilistic retrieval, relational data model, uncertain data, vague predicates

8 The effect multiple query representations on information retrieval system performance

Nicholas J. Belkin, C. Cool, W. Bruce Croft, James P. Callan

July 1993 **Proceedings of the 16th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(883.37 KB) Additional Information: full citation, references, citings, index terms

9 Join queries with external text sources: execution and optimization techniques

Surajit Chaudhuri, Umeshwar Dayal, Tak W. Yan

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data SIGMOD '95**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: pdf(1.49 MB) Additional Information: full citation, abstract, references, citings, index terms

Text is a pervasive information type, and many applications require querying over text sources in addition to structured data. This paper studies the problem of query processing in a system that loosely integrates an extensible database system and a text retrieval system. We focus on a class of conjunctive queries that include joins between text and structured data, in addition to selections over these two types of data. We adapt techniques from distributed query processing and introduce a novel ...

10 Query Optimization in Database Systems

Matthias Jarke, Jurgen Koch

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Publisher: ACM Press

Full text available: pdf(2.84 MB) Additional Information: full citation, references, citings, index terms

11 Query optimization for selections using bitmaps

Ming-Chuan Wu

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: pdf(1.54 MB) Additional Information: full citation, abstract, references, citings, index terms

Bitmaps are popular indexes for data warehouse (DW) applications and most database management systems offer them today. This paper proposes query optimization strategies for selections using bitmaps. Both continuous and discrete selection criteria are considered. Query optimization strategies are categorized into static and dynamic. Static optimization strategies discussed are the optimal design of bitmaps, and algorithms based on tree and logical reduction ...

12 XIRQL: An XML query language based on information retrieval concepts

Norbert Fuhr, Kai Großjohann

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(281.91 KB) Additional Information: full citation, abstract, references, citings, index terms

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness for both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1) document ranking based on index term weighting, (2) specificity-oriented search for retrieving the most relevant parts of documents, (3) datatypes with vague predicates for dealing with specific types of content and (4) structural vagueness f ...

Keywords: Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

13 SIGIR 2 - Information retrieval systems: Design considerations for a Boolean search system with automatic relevance feedback processing

Jon T. Rickman

August 1972 **Proceedings of the ACM annual conference - Volume 1**

Publisher: ACM Press

Full text available: pdf(290.56 KB) Additional Information: full citation, abstract, references

Two major problems are considered in the design of a Boolean search system with automatic relevance feedback processing. The first problem is how terms should be connected with Boolean logic when constructing a modified query. A number of fixed formats are presented and evaluated. The second problem is how to select terms for entry into the modified query. The stability of the system is found to be quite sensitive to its method of selecting terms. Only very restrictive term selection methods are ...

Keywords: Boolean, automatic relevance feedback, interactive retrieval, iterative search techniques, on-line, query modification

14 Abstracts of Articles in the Information Retrieval Area Selected by Gerard Salton

September 1986 **ACM SIGIR Forum**, Volume 21 Issue 1-2

Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: full citation

15 Special issue in parallelism in database systems: Query processing and inverted indices in shared: nothing text document information retrieval systems

Anthony Tomasic, Hector Garcia-Molina
July 1993 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 2 Issue 3
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references, citings

The performance of distributed text document retrieval systems is strongly influenced by the organization of the inverted text. This article compares the performance impact on query processing of various physical organizations for inverted lists. We present a new probabilistic model of the database and queries. Simulation experiments determine those variables that most strongly influence response time and throughput. This leads to a set of design trade-offs over a wide range of hardware configur ...

Keywords: file organization, full text information retrieval, inverted file, inverted index, performance, query processing, shared-nothing, striping

16 An algorithm for optimized Boolean evaluation in information management systems

Gerard D. Finn
May 1984 **Communications of the ACM**, Volume 27 Issue 5
Publisher: ACM Press
Full text available: pdf(742.77 KB) Additional Information: full citation, abstract, index terms, review

In cases where simple data validation techniques are inadequate and optimization policies relatively complex (e.g., in health and medical systems), a Boolean optimization algorithm can be used to report errors accurately and unambiguously. The algorithm is presented in the context of a data-validating software module that uses an LR(1)-parser. The algorithm's precision makes it of potential use for the retrieval of records that nearly satisfy a query. ...

Keywords: Boolean optimization algorithm, LR parsing, data dictionary, data retrieval, data validation, health information systems, information management systems

17 Versioning a full-text information retrieval system

Peter G. Anick, Rex A. Flynn
June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present an approach to the incorporation of object versioning into a distributed full-text information retrieval system. We propose an implementation based on "partially versioned" index sets, arguing that its space overhead and query-time performance make it suitable for full-text IR, with its heavy dependence on inverted indexing. We develop algorithms for computing both historical queries and time range queries and show how these algorithms can be applied to ...

18 Optimizing queries over multimedia repositories

Surajit Chaudhuri, Luis Gravano
June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96**, Volume 25 Issue 2
Publisher: ACM Press
Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings, index terms

Repositories of multimedia objects having multiple types of attributes (e.g., image, text)

are becoming increasingly common. A selection on these attributes will typically produce not just a set of objects, as in the traditional relational query model (*filtering*), but also a *grade of match* associated with each object, indicating how well the object matches the selection condition (*ranking*). Also, multimedia repositories may allow access to the attributes of each object only ...

19 Information storage and retrieval: a survey and functional description

Jack Minker
September 1977 **ACM SIGIR Forum**, Volume 12 Issue 2
Publisher: ACM Press
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, references

Information Storage and Retrieval (IS&R) encompasses a broad scope of topics ranging from basic techniques for accessing data to sophisticated approaches for the analysis of natural language text and the deduction of information. Within the field, three general areas of investigation can be distinguished not only by their subject matter but also by the types of individuals presently interested in them:(1) Document retrieval,(2) Generalized data management, and(3) Question-answering.A functional ...

Keywords: automatic indexing, data management, data structures, deductive search, information retrieval, natural language, problem solving, question-answering, relational data systems, theorem proving

20 Retrieval effectiveness of an ontology-based model for information selection

Latifur Khan, Dennis McLeod, Eduard Hovy
January 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(278.74 KB) Additional Information: full citation, abstract, index terms

Technology in the field of digital media generates huge amounts of nontextual information, audio, video, and images, along with more familiar textual information. The potential for exchange and retrieval of information is vast and daunting. The key problem in achieving efficient and user-friendly retrieval is the development of a search mechanism to guarantee delivery of minimal irrelevant information (high precision) while insuring relevant information is not overlooked (high recall). The tradi ...

Keywords: Audio, Metadata, Ontology, Precision, Recall, SQL

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